Date: Sun, 17 Jul 94 04:30:05 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #802
To: Info-Hams

Info-Hams Digest Sun, 17 Jul 94 Volume 94 : Issue 802

Today's Topics:
STS-65 Rise/Set 7/17

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

Date: 17 Jul 94 08:21:58 GMT
From: news-mail-gateway@ucsd.edu
Subject: STS-65 Rise/Set 7/17
To: info-hams@ucsd.edu

SB SAREX @ AMSAT $STS-65.013
STS-65 Eastern R/S Times 07/17

Below are the rise and set times for STS-65 for selected US cities
over the next two days. This data was generated to help hams without
orbit programs to participate in the SAREX activities. Please note that
the times shown are UTC and NOT LOCAL TIME. This listing includes only
those passes with an elevation greater than 5 degrees. For information
regarding SAREX frequencies and operations procedures, check your
local PBBS, or bulletins from W1AW, W5RRR, W6VIO or WA3NAN.

Symbol key: rise = time that shuttle appears above horizon
tca = time of closest approach to observer
set = time that shuttle disappears below horizon
el = maximium elevation above horizon
geo = geometry: A = Ascending orbit, moving south to north
D = Descending orbit, moving north to south

E = passes east of observer
W = passes west of observer

New York City
STS-65 Element Set GSFC-21

date	rise	tca	set	el	geo	orbit
17Jul94	11:33:40	11:36:59	11:39	6	D-W	141
18Jul94	10:06:08	10:09:21	10:12	6	A-E	156
18Jul94	11:41:13	11:44:23	11:47	5	D-W	157

Washington D.C.
STS-65 Element Set GSFC-21

date	rise	tca	set	el	geo	orbit
17Jul94	09:57:52	10:01:17	10:04	6	A-E	140
17Jul94	11:32:40	11:36:24	11:39	9	D-W	141
17Jul94	13:08:14	13:11:31	13:14	6	D-W	142
18Jul94	10:05:07	10:08:42	10:11	8	A-E	156
18Jul94	11:40:12	11:43:51	11:47	9	D-W	157

Atlanta, GA
STS-65 Element Set GSFC-21

date	rise	tca	set	el	geo	orbit
17Jul94	09:55:19	09:59:21	10:02	13	A-E	140
17Jul94	11:30:19	11:34:44	11:38	24	A-E	141
17Jul94	13:05:49	13:10:10	13:14	21	D-W	142
17Jul94	14:41:49	14:45:29	14:48	9	D-W	143
18Jul94	08:28:18	08:31:37	08:34	6	A-E	155
18Jul94	10:02:36	10:06:52	10:10	18	A-E	156
18Jul94	11:37:52	11:42:18	11:46	25	D-W	157
18Jul94	13:13:32	13:17:42	13:21	16	D-W	158

Miami, FL
STS-65 Element Set GSFC-21

date	rise	tca	set	el	geo	orbit

17Jul94	09:55:08	09:59:47	10:03	88	A-E	140
17Jul94	11:31:00	11:35:36	11:39	43	D-W	141
17Jul94	13:06:49	13:11:28	13:15	66	D-E	142
17Jul94	14:42:39	14:47:07	14:51	28	D-W	143
18Jul94	06:53:02	06:56:23	06:59	6	A-E	154
18Jul94	08:27:15	08:31:47	08:35	35	A-E	155
18Jul94	10:02:52	10:07:29	10:11	57	A-W	156
18Jul94	11:38:46	11:43:22	11:47	44	D-E	157
18Jul94	13:14:32	13:19:10	13:23	72	D-W	158
18Jul94	14:50:35	14:54:41	14:58	14	D-W	159

Compiled by Dan Schultz, N8FGV
Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group
Send comments to n8fgv@amsat.org
/EX

SB SAREX @ AMSAT $STS-65.014
STS-65 Central R/S Times 07/17

Below are the rise and set times for STS-65 for selected US cities over the next two days. This data was generated to help hams without orbit programs to participate in the SAREX activities. Please note that the times shown are UTC and NOT LOCAL TIME. This listing includes only those passes with an elevation greater than 5 degrees. For information regarding SAREX frequencies and operations procedures, check your local PBBS, or bulletins from W1AW, W5RRR, W6VIO or WA3NAN.

Symbol key: rise = time that shuttle appears above horizon
tca = time of closest approach to observer
set = time that shuttle disappears below horizon
el = maximium elevation above horizon
geo = geometry: A = Ascending orbit, moving south to north
D = Descending orbit, moving north to south
E = passes east of observer
W = passes west of observer

Chicago, IL
STS-65 Element Set GSFC-21

date	rise	tca	set	el	geo	orbit
18Jul94	11:38:35	11:41:37	11:44	5	D-E	157

Huntsville, AL
STS-65 Element Set GSFC-21

date	rise	tca	set	el	geo	orbit
17Jul94	09:55:10	09:58:57	10:02	10	A-E	140
17Jul94	11:29:57	11:34:16	11:38	20	A-E	141
17Jul94	13:05:22	13:09:39	13:13	18	D-W	142
17Jul94	14:41:20	14:44:55	14:48	8	D-W	143
18Jul94	10:02:21	10:06:27	10:10	14	A-E	156
18Jul94	11:37:28	11:41:48	11:45	21	D-W	157
18Jul94	13:13:04	13:17:10	13:20	14	D-W	158

Houston, TX

STS-65 Element Set GSFC-21

date	rise	tca	set	el	geo	orbit
17Jul94	09:52:32	09:56:40	10:00	15	A-E	140
17Jul94	11:27:34	11:32:10	11:36	46	A-E	141
17Jul94	13:03:11	13:07:49	13:11	65	D-W	142
17Jul94	14:38:55	14:43:25	14:47	30	D-W	143
17Jul94	16:15:12	16:18:47	16:21	8	D-W	144
18Jul94	08:25:38	08:28:54	08:31	6	A-E	155
18Jul94	09:59:49	10:04:14	10:08	25	A-E	156
18Jul94	11:35:11	11:39:49	11:43	61	A-E	157
18Jul94	13:10:52	13:15:29	13:19	52	D-W	158
18Jul94	14:46:43	14:50:59	14:54	18	D-W	159

Denver, CO

STS-65 Element Set GSFC-21

date	rise	tca	set	el	geo	orbit
17Jul94	13:02:09	13:05:42	13:08	8	D-E	142
17Jul94	14:37:31	14:40:48	14:43	6	D-W	143
18Jul94	11:34:39	11:38:03	11:40	6	A-E	157
18Jul94	13:09:35	13:13:08	13:16	8	D-W	158

Compiled by Dan Schultz, N8FGV
Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group
Send comments to n8fgv@amsat.org
/EX

SB SAREX @ AMSAT $STS-65.15
STS-65 Western R/S Times 07/17

Below are the rise and set times for STS-65 for selected US cities
over the next two days. This data was generated to help hams without
orbit programs to participate in the SAREX activities. Please note that
the times shown are UTC and NOT LOCAL TIME. This listing includes only
those passes with an elevation greater than 5 degrees. For information
regarding SAREX frequencies and operations procedures, check your
local PBBS, or bulletins from W1AW, W5RRR, W6VIO or WA3NAN.

Symbol key: rise = time that shuttle appears above horizon
            tca = time of closest approach to observer
            set = time that shuttle disappears below horizon
            el   = maximium elevation above horizon
            geo = geometry: A = Ascending orbit, moving south to north
                             D = Descending orbit, moving north to south
                             E = passes east of observer
                             W = passes west of observer

Seattle, WA
               STS-65 Element Set GSFC-21

   no visible passes

Albuquerque, NM
               STS-65 Element Set GSFC-21

date	rise	tca	set	el	geo	orbit
17Jul94	11:26:08	11:29:59	11:33	10	A-E	141
17Jul94	13:01:00	13:05:18	13:09	19	D-E	142
17Jul94	14:36:28	14:40:39	14:44	16	D-W	143
17Jul94	16:12:35	16:15:53	16:18	6	D-W	144
18Jul94	09:59:15	10:02:17	10:04	5	A-E	156
18Jul94	11:33:22	11:37:29	11:41	15	A-E	157
18Jul94	13:08:32	13:12:50	13:16	19	D-W	158
18Jul94	14:44:12	14:48:09	14:51	12	D-W	159

Los Angeles, CA
               STS-65 Element Set GSFC-21

date	rise	tca	set	el	geo	orbit
17Jul94	11:23:54	11:27:28	11:30	7	A-E	141

date	rise	tca	set	el	geo	orbit
17Jul94	12:58:27	13:02:44	13:06	18	A-E	142
17Jul94	14:33:45	14:38:09	14:42	23	D-W	143
17Jul94	16:09:28	16:13:31	16:17	13	D-W	144
18Jul94	11:31:00	11:34:56	11:38	12	A-E	157
18Jul94	13:05:55	13:10:17	13:14	22	A-E	158
18Jul94	14:41:23	14:45:42	14:49	20	D-W	159
18Jul94	16:17:22	16:21:00	16:24	8	D-W	160

Honolulu, HI

STS-65 Element Set GSFC-21

date	rise	tca	set	el	geo	orbit
17Jul94	12:48:32	12:52:52	12:56	21	A-E	142
17Jul94	14:23:55	14:28:31	14:32	50	A-W	143
17Jul94	16:00:11	16:04:29	16:08	18	A-W	144
17Jul94	17:36:19	17:40:38	17:44	18	D-E	145
17Jul94	19:12:00	19:16:37	19:20	50	D-E	146
17Jul94	20:47:50	20:52:14	20:56	21	D-W	147
18Jul94	11:21:37	11:25:01	11:27	7	A-E	157
18Jul94	12:55:54	13:00:29	13:04	50	A-E	158
18Jul94	14:31:48	14:36:16	14:40	28	A-W	159
18Jul94	16:08:07	16:12:21	16:16	17	D-W	160
18Jul94	17:44:02	17:48:28	17:52	24	D-E	161
18Jul94	19:19:41	19:24:19	19:28	70	D-W	162
18Jul94	20:56:06	20:59:48	21:03	9	D-W	163

Compiled by Dan Schultz, N8FGV
Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group
Send comments to n8fgv@amsat.org
/EX

SB SAREX @ AMSAT $STS-65.016
STS-65 World R/S Times 07/17

Below are the rise and set times for STS-65 for selected worldwide cities over the next two days. This data was generated to help hams without orbit programs to participate in the SAREX activities. Please note that the times shown are UTC and NOT LOCAL TIME. This listing includes only those passes with an elevation greater than 5 degrees. For information regarding SAREX frequencies and operations procedures, check your local PBBS, or bulletins from W1AW, W5RRR, W6VIO or WA3NAN.

Symbol key: rise = time that shuttle appears above horizon

tca = time of closest approach to observer
set = time that shuttle disappears below horizon
el   = maximium elevation above horizon
geo = geometry: A = Ascending orbit, moving south to north
                 D = Descending orbit, moving north to south
                 E = passes east of observer
                 W = passes west of observer

London, England
STS-65 Element Set GSFC-21

no visible passes

Paris, France
STS-65 Element Set GSFC-21

no visible passes

Tokyo, Japan
STS-65 Element Set GSFC-21

date	rise	tca	set	el	geo	orbit
17Jul94	18:58:16	19:02:05	19:05	10	A-E	146
17Jul94	20:33:07	20:37:22	20:41	17	D-E	147
17Jul94	22:08:36	22:12:41	22:16	14	D-W	148
17Jul94	23:44:52	23:47:53	23:50	5	D-W	149
18Jul94	17:31:21	17:34:23	17:36	5	A-E	161
18Jul94	19:05:29	19:09:34	19:13	14	A-E	162
18Jul94	20:40:40	20:44:53	20:48	17	D-W	163
18Jul94	22:16:22	22:20:10	22:23	10	D-W	164

Sydney, Australia
STS-65 Element Set GSFC-21

date	rise	tca	set	el	geo	orbit
17Jul94	06:09:03	06:13:04	06:16	12	D-E	137
17Jul94	07:43:56	07:48:25	07:52	23	D-E	138
17Jul94	09:19:25	09:23:51	09:27	21	A-W	139
17Jul94	10:55:22	10:59:10	11:02	9	A-W	140
18Jul94	04:42:09	04:45:20	04:48	5	D-E	152
18Jul94	06:16:16	06:20:34	06:24	17	D-E	153

18Jul94	07:51:29	07:55:59	07:59	25	A-W	154
18Jul94	09:27:07	09:31:23	09:35	16	A-W	155
18Jul94	11:03:33	11:06:37	11:09	5	A-W	156

Compiled by Dan Schultz, N8FGV
Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group
Send comments to n8fgv@amsat.org
/EX

End of Info-Hams Digest V94 #802
****